**Practical No. 08**

**Creation of Trigger**

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**Class: FYBSc IT(A)**

**Roll No.: 58**

**Subject : PLSQL**

**Sign:**

1. **1. Creation of table**

create table student1 (id number(10), fname varchar(10), Iname varchar(10),

age number(10));

insert into student10 (id, fname, Iname, age) values (10, 'Sibaraj', 'Lenka', 18);

insert into student10 (id, fname, Iname, age) values (10, 'Ayush', 'Chalke', 40);

**2. Trigger Creation**

CREATE OR REPLACE TRIGGER CheckAge5

BEFORE INSERT ON student10

FOR EACH ROW

BEGIN

IF: NEW.age > 30 THEN

RAISE\_APPLICATION\_ERROR(-20001, 'Age Cannot be more than 30');

END IF;

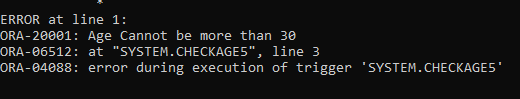
END;

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**4. Test the Trigger**

insert into student10 (id, fname, Iname, age) values (10, 'Ayush', 'Chalke', 40);

**Output:**

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1. **1. Create the Employee Table**

CREATE TABLE employee (

employee\_id NUMBER PRIMARY KEY,

first\_name VARCHAR2(50),

last\_name VARCHAR2(50),

department VARCHAR2(50),

hire\_date DATE

);

**2. Create the Employee Log Table**

CREATE TABLE employee\_log (

log\_id NUMBER GENERATED ALWAYS AS IDENTITY PRIMARY KEY,

action\_type VARCHAR2(10), -- Action type: INSERT, UPDATE, DELETE

employee\_id NUMBER,

first\_name VARCHAR2(50),

last\_name VARCHAR2(50),

department VARCHAR2(50),

action\_time TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

**3. Create the Trigger**

CREATE OR REPLACE TRIGGER after\_employee\_insert

AFTER INSERT ON employee

FOR EACH ROW

BEGIN

INSERT INTO employee\_log (action\_type, employee\_id, first\_name, last\_name, department)

VALUES ('INSERT', :NEW.employee\_id, :NEW.first\_name, :NEW.last\_name, :NEW.department);

END;

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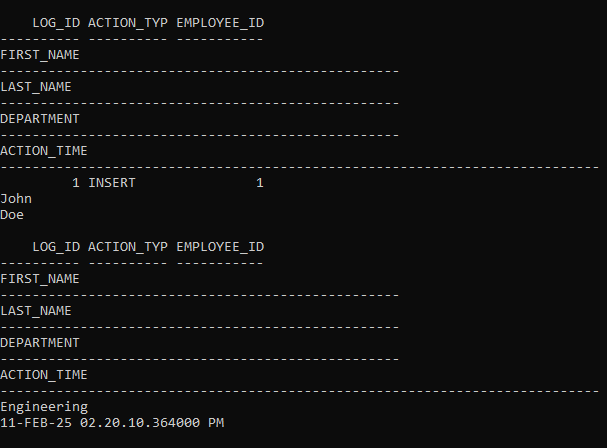
**4. Test the Trigger**

INSERT INTO employee (employee\_id, first\_name, last\_name, department, hire\_date)

VALUES (1, 'John', 'Doe', 'Engineering', SYSDATE);

**After running the insert statement, check the contents of the employee\_log table to verify that the log entry was created.**

SELECT \* FROM employee\_log;

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